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WAXES
-POLYETHYLENE-

Wiraten 95

DESCRIPTION:

Wiraten 95 is a low molecular weight polyethylene wax used as a process aid in a wide variety of polymer systems. Its outstanding compatibility and excellent flow and release characteristics make Wiraten 95 useful in almost every rubber compound. This product provides a lower softening point than standard PE wax.

TYPICAL PROPERTIES:

Penetration (ASTM D-1321) @ 25°C	12-18 dmm
Drop melt point (ASTM D-127) @ 25°C	110-112°C
Softening point (ASTM E28-97)	85-95°C
Physical form and appearance.....	white prill
Specific Gravity.....	0.925 g/cm ³

APPLICATIONS:

Wiraten 95 finds use in rubber and plastic compounding, color concentrates, as an external vinyl lubricant and in hot melt adhesives.

Wiraten 95 may be used to:

- improve flow for injection and transfer molding, provide release from hot metal surfaces (internal mixers, hot calendar rolls, extruder dies, and molds)
- improve filler dispersion when added early in mix
- at higher loadings (>5phr), provide a glossier finish to cured parts

Wiraten 95 is typically used at the 2-6 phr level in virtually all elastomers (1 phr is the usual recommendation for fluoroelastomers). It provides release with minimal interference with adhesion properties. Note: for any PE wax to be effective it must be above melt point. Thus, PE waxes provide no release from mills but outstanding release from internal mixers and molds.

Normally up to 5 phr may be added to a compound with little effect on vulcanized properties. High loadings (up to 20 phr) can be used in EPDMs to achieve high durometer non-black stocks that process well. Wiraten 95 should be melted when dispersed in a compound to prevent molding flaws (streaky blisters are evidence of lack of melt).

Wiraten 95's lower softening point can provide release from equipment at lower processing temperatures. For example, the temperature at which a stock releases from a calendar or an internal mixer might be lowered 10°C (say from 120°C to 110°C), thus reducing stock heat history.

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